TeleEye MX Series

HD Network Camera

MX600 SpeedDome Series

Installation Guide

TeleEye

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Version 0.2

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1. Introduction

TeleEye MX Series is a complete portfolio of professional and practical HD network camera utilizing our proprietary HD SMAC-M compression technology. The MX series offers the balanced combination of high-quality video, mobility, scalability and cost effectiveness. By using TeleEye MX, users can build an integrated, scalable, wired or wireless IP & mobile video surveillance solution over existing network infrastructure. With the support of TeleEye versatile back-end applications, users can gain extra control over their TeleEye business management beyond security.

2. Safety Cautions

- Do not install the camera in extreme temperature conditions. Use the camera under conditions where temperatures are within -30C ~ +40C: (-22F ~ 104F)
- Do not install the camera under unstable lighting conditions. Severe lighting change or flicker can cause the camera to work improperly.
- Do not install or use the camera in an environment where humidity is high. This can result in poor-quality image.
- Do not disassemble the camera. There are no user serviceable parts inside it. Opening or removing the camera's cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel only.
- Do not touch the imaging surface of sensor. Use a soft cloth with alcohol to clean the surface if it is touched accidentally.
- The camera may be damaged by electrical and physical shock. Use regulated 24V DC, 3A power supply. Do not throw or drop it onto the floor.
- The camera can be used outdoor. But if it is used outdoor, it is required to avoid direct light from the sun. Do not use it under water.

3. Hardware Installation

3.1 MX677-HD

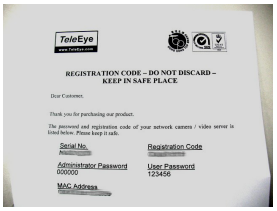
MX677-HD High-definition SpeedDome

Features

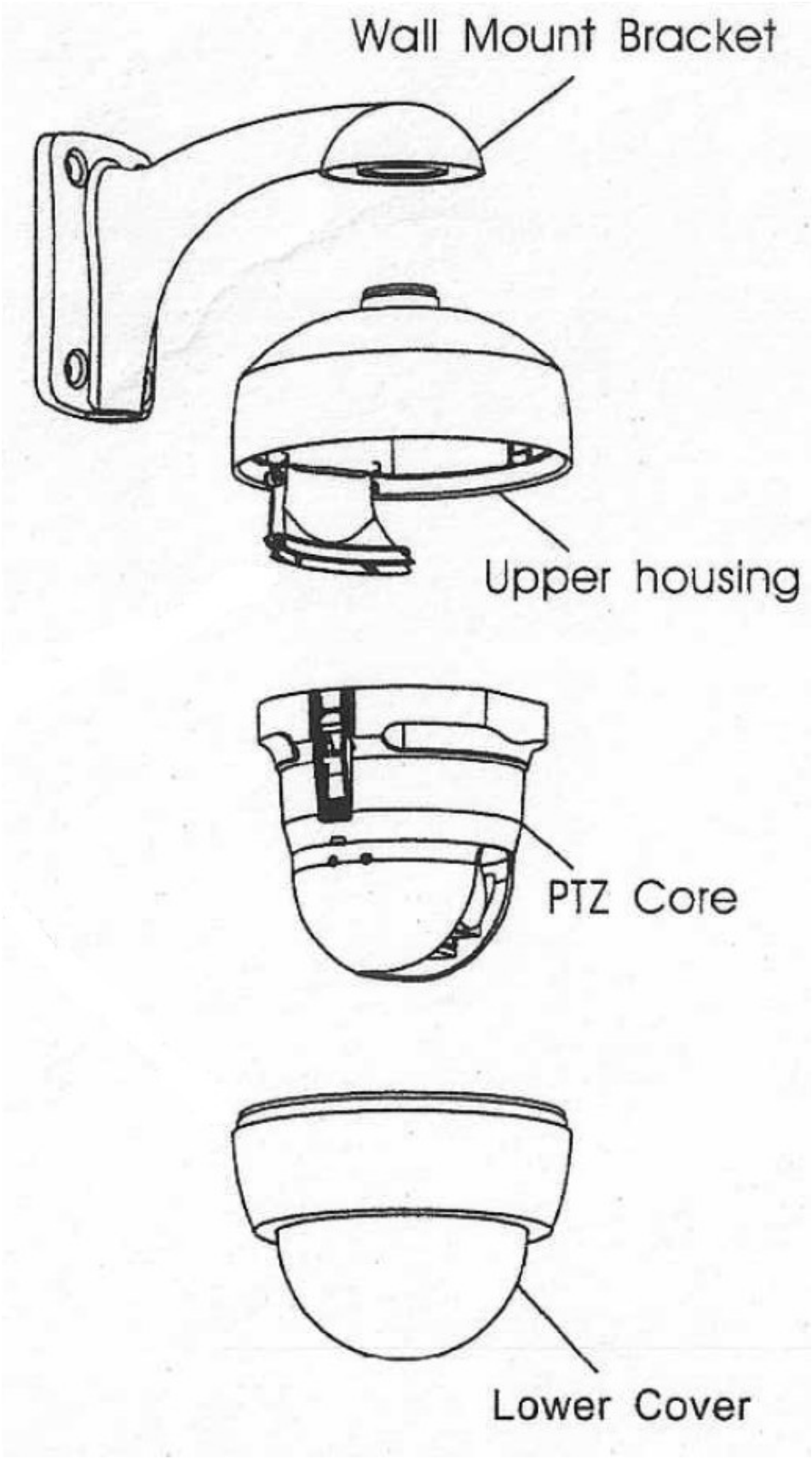
- 1/3” 2MP Sony CMOS Sensor
- 720p @ 25fps
- Zoom: Optical 20X + Digital 12X
- Day / Night, Minimum illumination: 0.095lux
- Presets, Patrol, Tour and Auto-scan
- Privacy Masking up to 8 independent masks
- IP66 Weather Resistance
- HD SMAC-M multi-stream coder for HD video
- Independent HD video recording stream
- Independent mobile stream for mobile phone viewing
- Optional sureREC HD Video Recording Solution

- Optional sureSIGHT Integrated Video Management Solution

Package Content

Content	Description	Content	Description
	MX677-HD Wall Mount Bracket		MX677-HD Housing
	MX677-HD PTZ Core		24V AC Power Supply
	Network Cable		Screws
	Registration Code Sheet		Warranty Card
	Installation Guide		Software CD

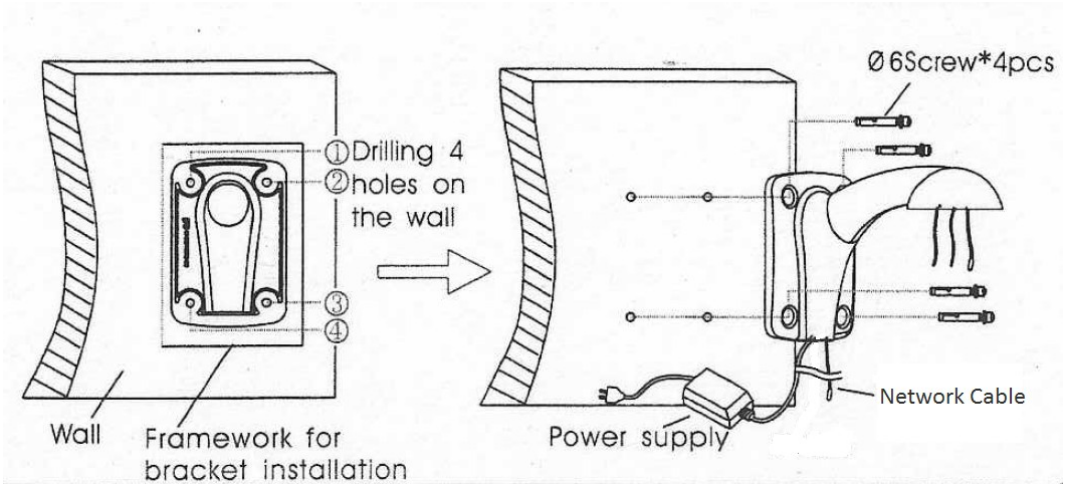
Diagram



Installation

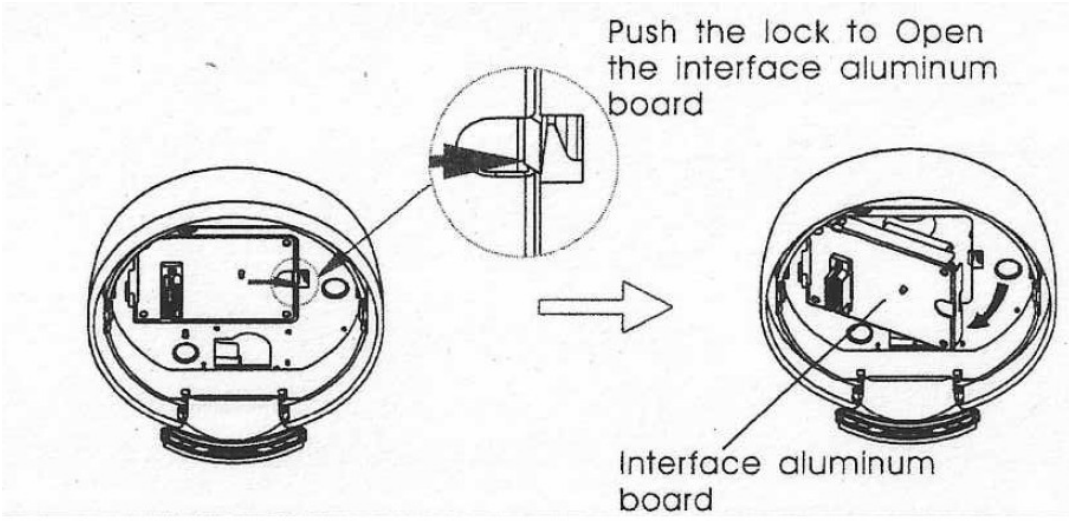
1. Draw the framework for bracket installation. Drill 4 holes on the wall.

2. Set 4 pieces of screws through the bracket and mount the bracket onto the wall.

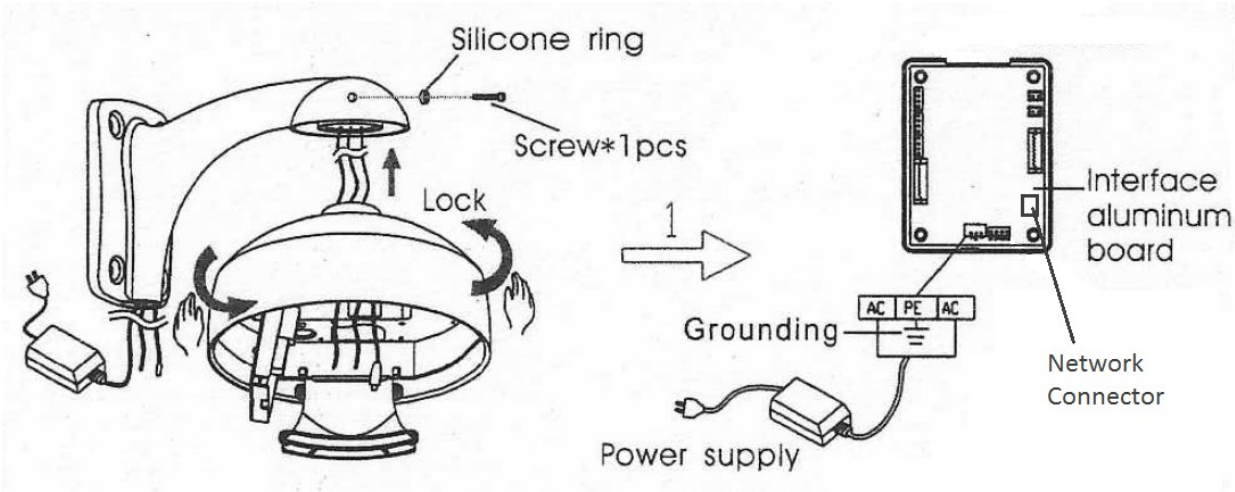


3. Open the Lower Cover and remove the PTZ Core.

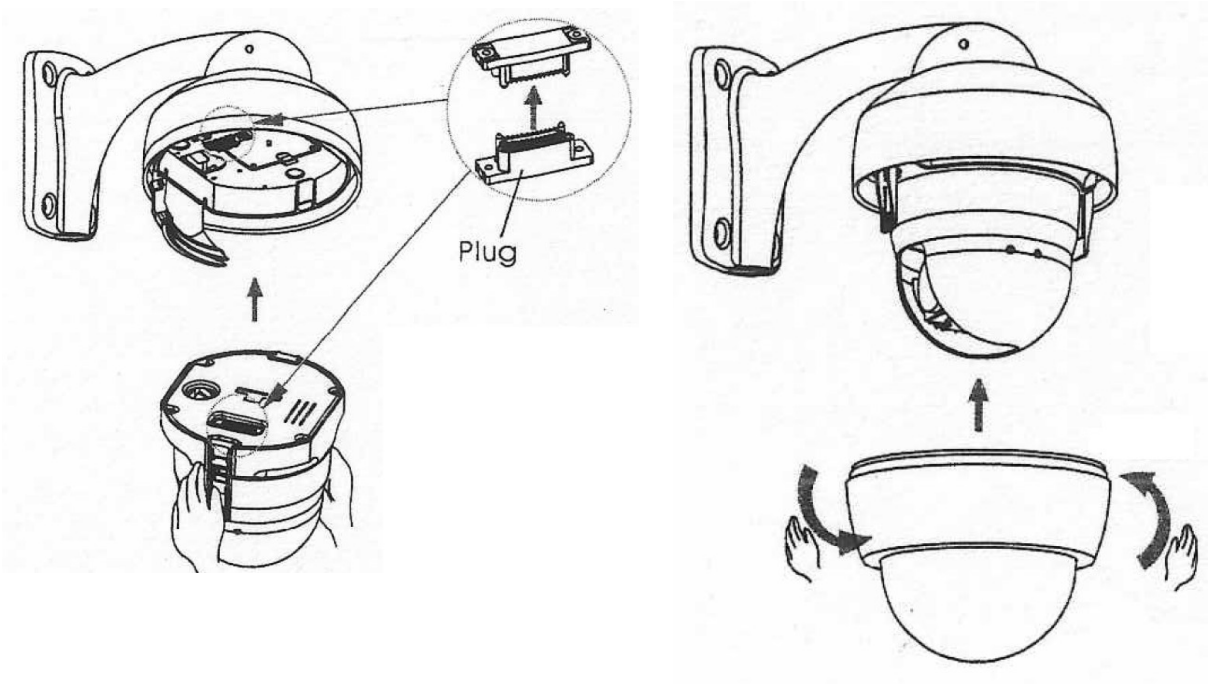
4. Then open the interface aluminum board inside the Upper Housing as follow:



5. Connect the wires and lock the Upper Housing to the Wall Mount Bracket as below:



6. Then, set the PTZ Core into the Upper Housing and close the Lower Cover.



7. Finally, add the Twisted Pair Surge Protection Device between the SpeedDome and the Network for surge protection in outdoor environment.

4. Software Installation

In this chapter, it will guide you how to install the sureSIGHT software.

4.1 PC Requirements

	sureSIGHT Lite	sureSIGHT Business	sureSIGHT Pro
Processor	Intel® Core™ 2 Duo Processor	Intel® Core™ 2 Quad Processor	
Memory	2GB or above		
Hard Drive	2GB of free space or above		
Optical Drive	CD-ROM or DVD-ROM		
Display	1280x800 resolution or above Direct3D supported		
Sound	Sound Card is required		
Ethernet	10/100Mbps or above		
Port	Serial Port		
Operating System	Microsoft Windows XP SP3, VISTA SP1 or 7 (32-bit or 64-bit Edition)		

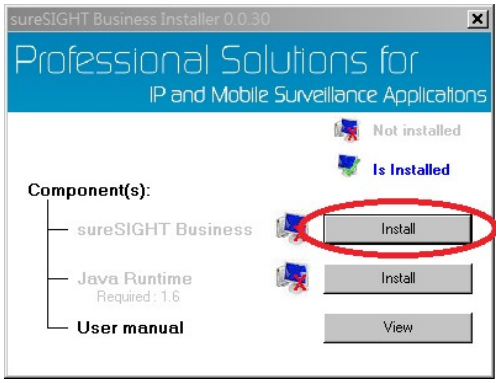
4.2 sureSIGHT Installation

sureSIGHT is an integrated video management platform for IP cameras and Video Recording Servers. Its modular design allows customers to scale up easily and add functional modules to suit specific requirements.

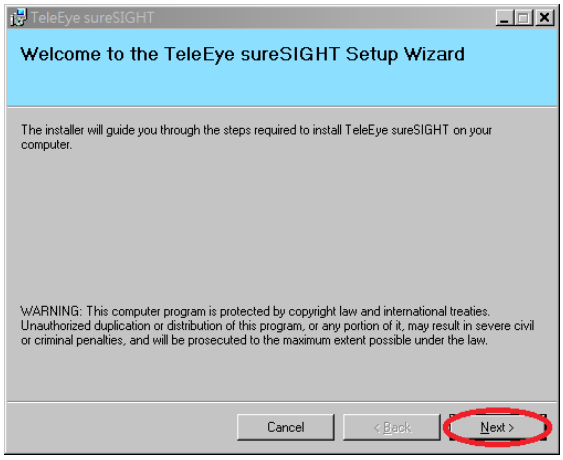
For the sureSIGHT installation, please refer to the following steps:

Step 1. Put the installation CD into the CD-ROM or DVD-ROM, the installer should run automatically. If not, open the CD manually and execute the *"Installer.exe"*

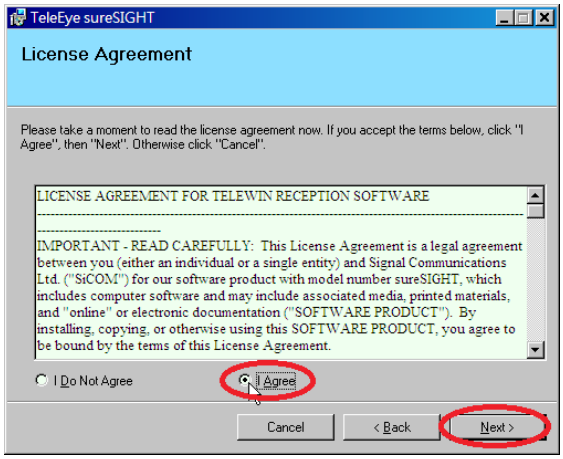
Step 2. Click the **[Install]** button next to *"sureSIGHT"* in the installation menu.



Step 3. Click the **[Next >]** button in the welcome window.

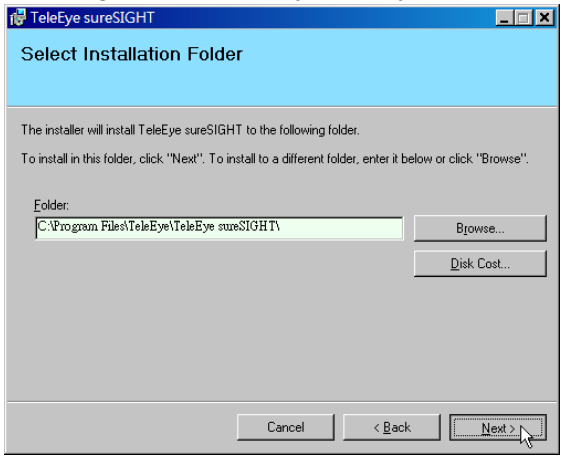

TeleEye sureSIGHT
Welcome to the TeleEye sureSIGHT Setup Wizard
The installer will guide you through the steps required to install TeleEye sureSIGHT on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

Step 4. After reading the License Agreement, select *"I Agree"* to confirm and then click the **[Next >]** button.

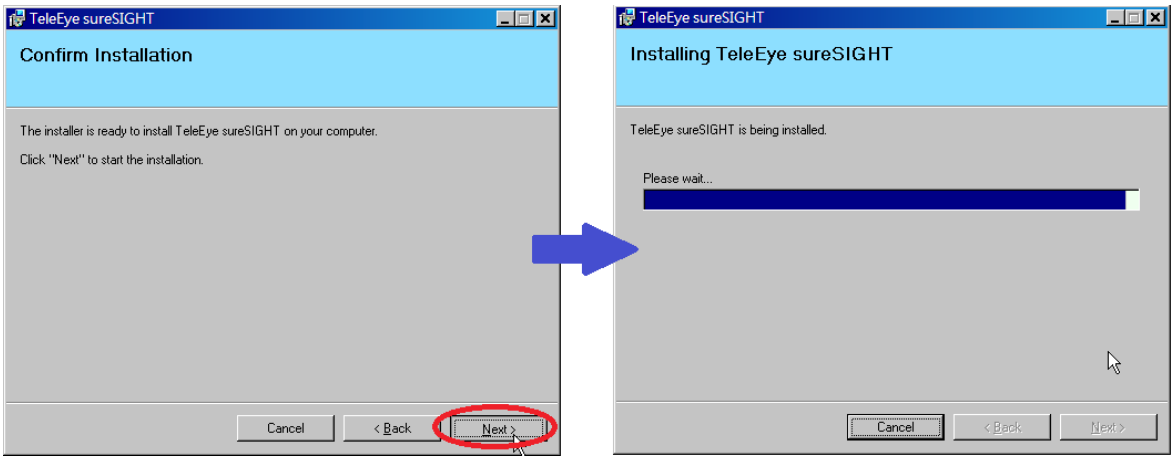

TeleEye sureSIGHT
License Agreement
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
LICENSE AGREEMENT FOR TELEWIN RECEPTION SOFTWARE
IMPORTANT - READ CAREFULLY: This License Agreement is a legal agreement between you (either an individual or a single entity) and Signal Communications Ltd. ("SiCOM") for our software product with model number sureSIGHT, which includes computer software and may include associated media, printed materials, and "online" or electronic documentation ("SOFTWARE PRODUCT"). By installing, copying, or otherwise using this SOFTWARE PRODUCT, you agree to be bound by the terms of this License Agreement.
I Do Not Agree
I Agree
Cancel
< Back
Next >

Step 5. **[Browse]** to change the installation path of sureSIGHT. **[Disk Cost...]** to check the available space for the installation.

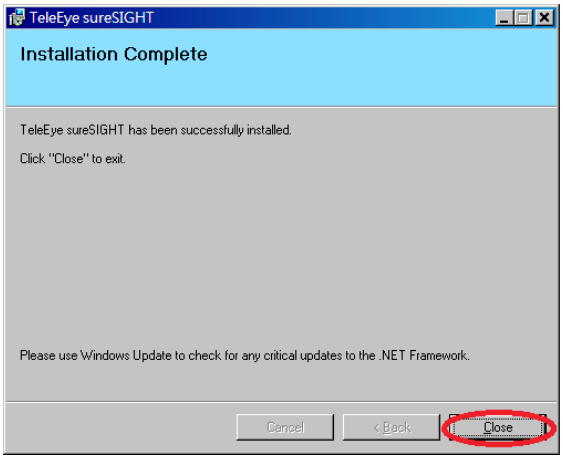
[Note] The default path "C:\Program Files\TeleEye\TeleEye sureSIGHT\" is recommended


TeleEye sureSIGHT
Select Installation Folder
The installer will install TeleEye sureSIGHT to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\TeleEye\TeleEye sureSIGHT\
Browse...
Disk Cost...
Cancel
< Back
Next >

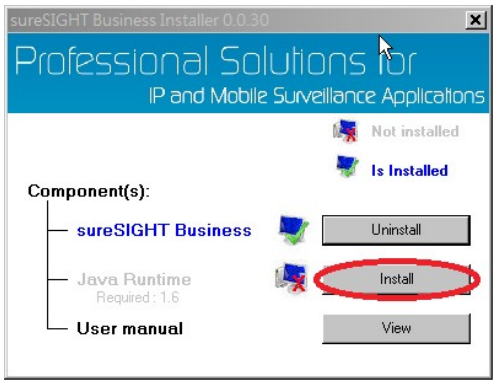
Step 6. Click the **[Next >]** button twice to confirm and start the installation.



Step 7. When the installation is completed successfully, click the **[Close]** button to close the window.


TeleEye sureSIGHT
Installation Complete
TeleEye sureSIGHT has been successfully installed.
Click "Close" to exit.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
< Back
Close

Step 8. If the PC does not have JAVA runtime installed, click the **[Install]** button next to *"JAVA Runtime"* from the installation menu to install.



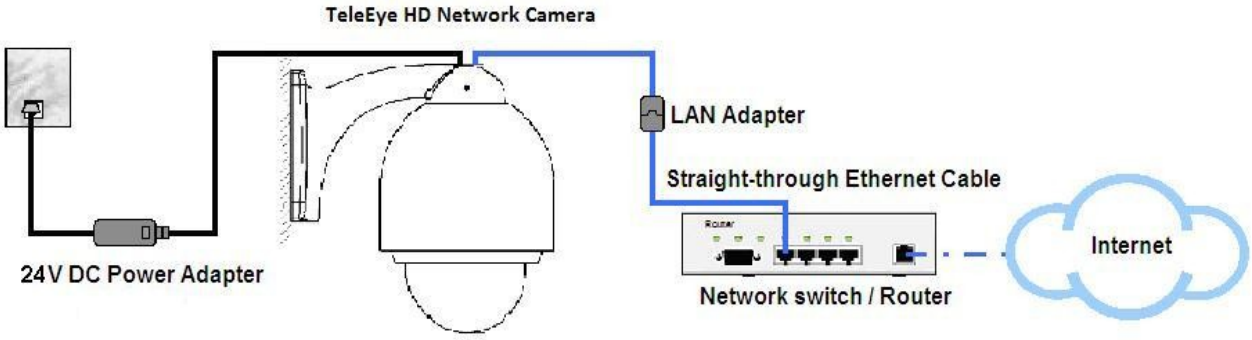
Step 9. After completing all the necessary installations, sureSIGHT is now ready in the start menu.

5. Network Configuration

In this chapter, it will guide you how to setup the target camera IP address.

5.1 Connecting the Camera to Network

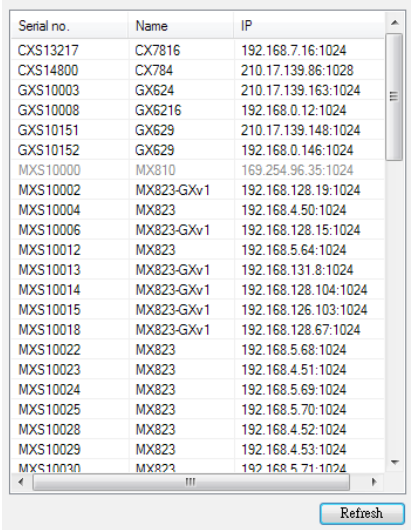
Before setting the IP address, please make sure the network connection is correct as following diagram:



5.2 Changing the IP Address

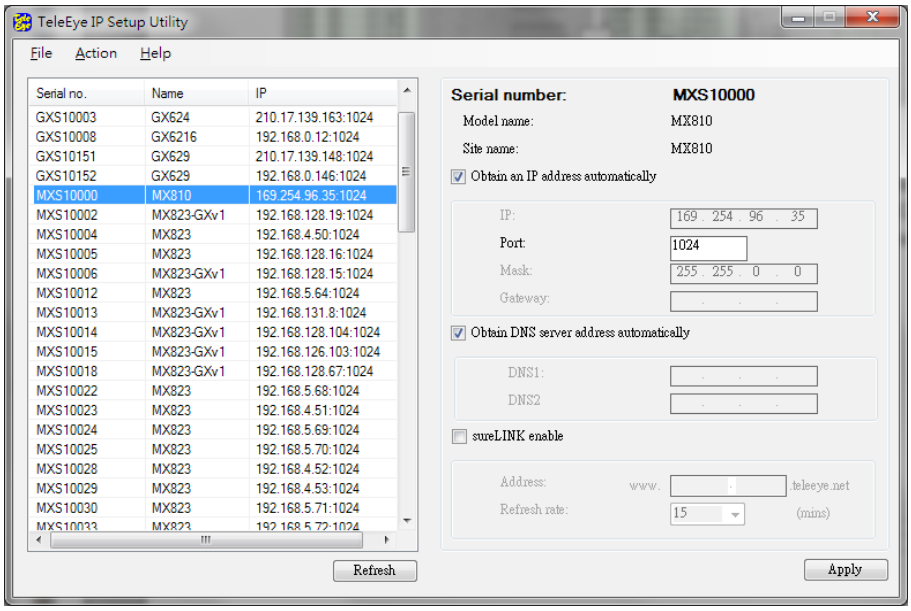
Step 1. Turn on the network camera and make sure the camera is connected to the network. Then select the *"Run TeleEye IP Setup Utility"* from the start menu.

Step 2. Search the target camera by its serial number, and hightlight the corresponding row from the list on the left side of the window to select it. If the camera cannot be found, click the **[Refresh]** button.

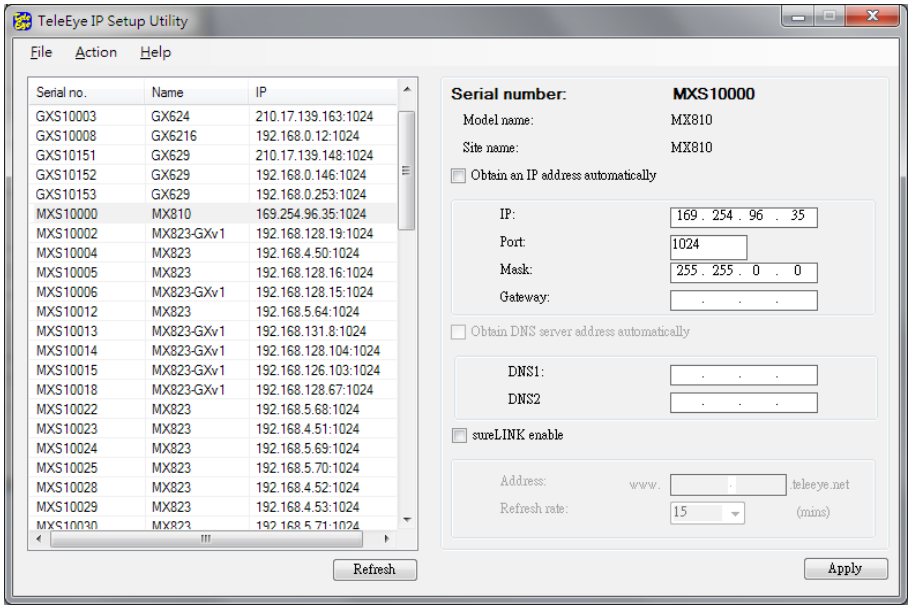


Step 3. There are 2 methods in assigning an IP address to the camera.

Methods 1. For assigning IP address automatically, check the *"Obtain an IP address automatically"* in order to assign the IP address by the DHCP server. Users only need to choose the port number desired.



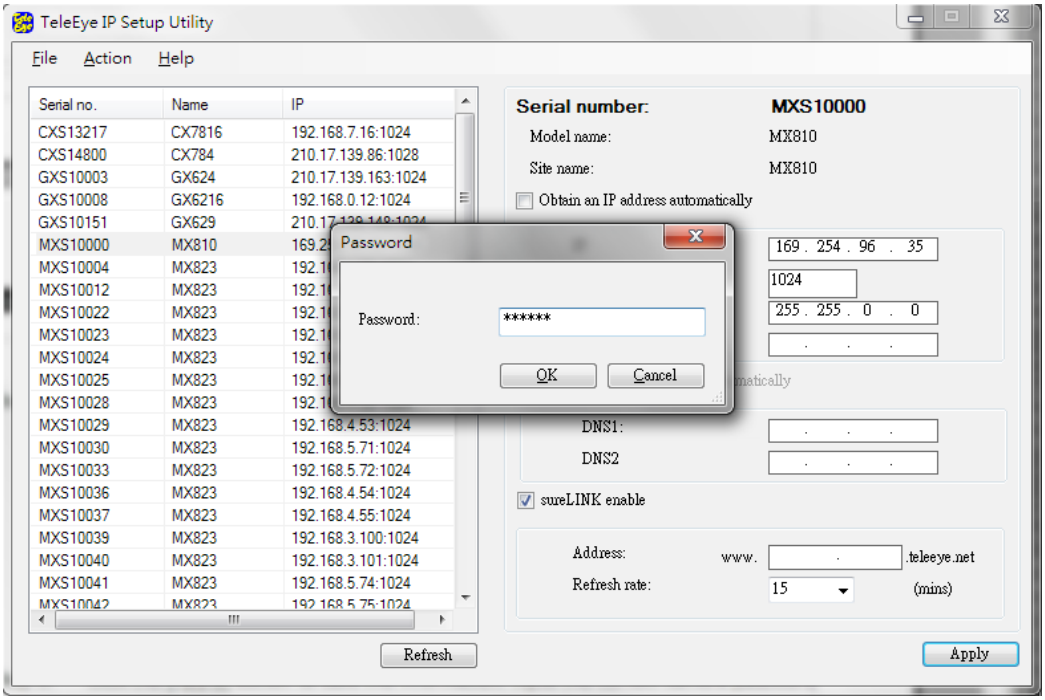
Methods 2. For assigning IP address manually, uncheck the *"Obtain an IP address automatically"*. Then input the IP address, port, network mask and default gateway.



Step 4. If users wants to enable the dynamic IP connection, check the *"sureLINK enable"*. Input the registered sureLINK address and select the desired refresh rate.

[Note] If users do not have any sureLINK addresses, please go to http://www.teleeye.com/softreg/customer/s_domainreg.jsp for sureLINK registration.

Step 5. Click the **[Apply]** button to save the information. Input the correct camera password when the password dialogue box is shown.



[Note] The default password is "000000".

6. Video Monitoring

In this chapter, it will guide you how to do the video monitoring in a few steps. For more detailed procedures or operations, please refer to the relevant documents.

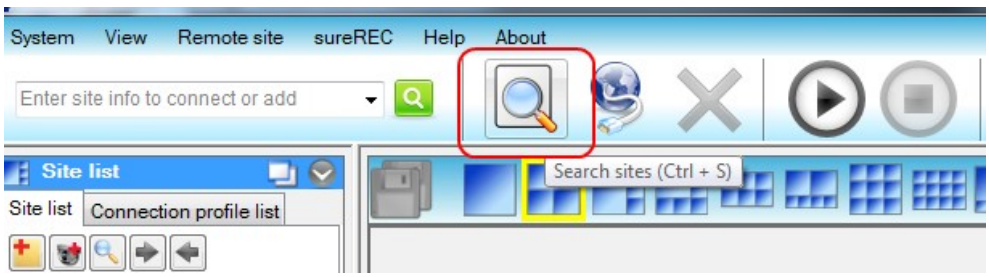
6.1 sureSIGHT

Step 1. Turn on the network camera and make sure the network connection is set up properly. Then select the *"Run sureSIGHT Lite"* from the start menu.

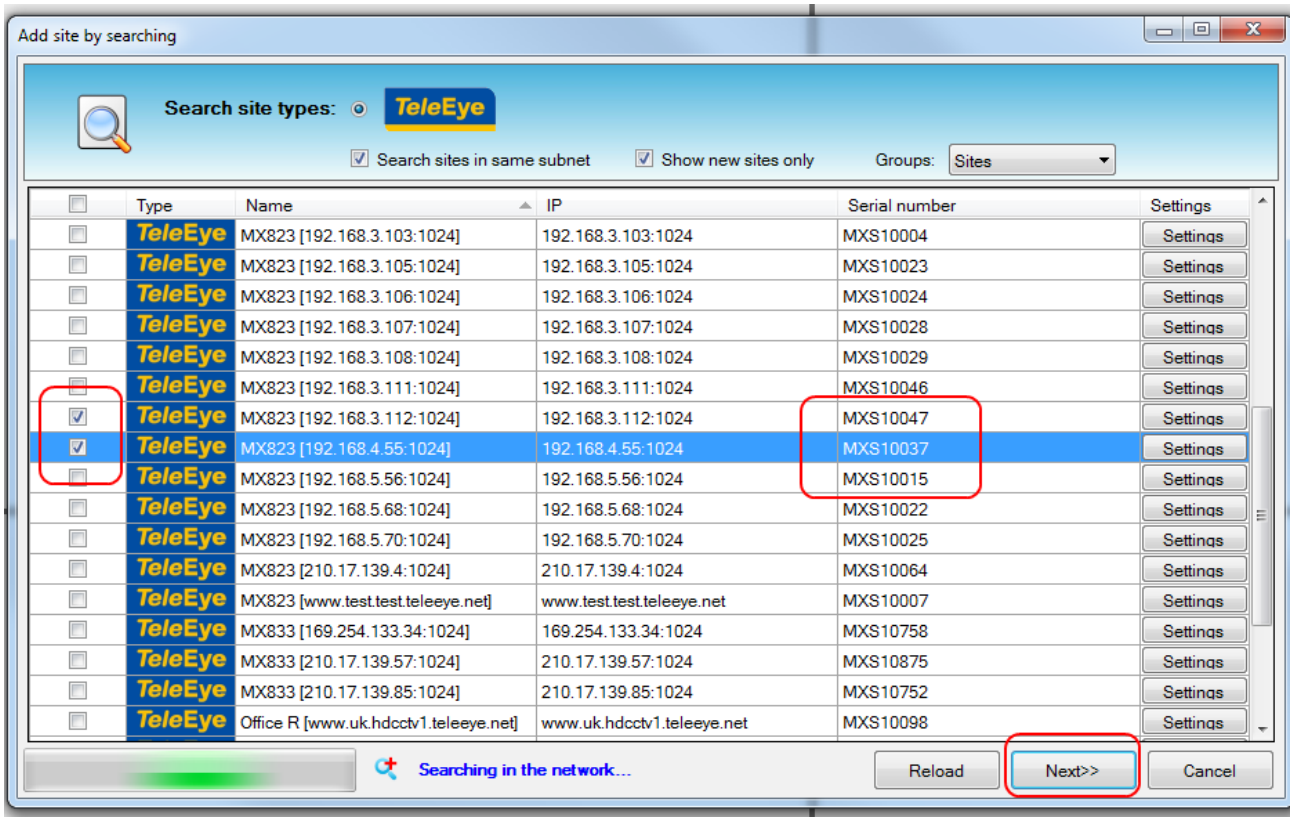
Step 2. Input the password in the password dialogue box, and then click the button.

[Note] The default password for administrator is "000000".

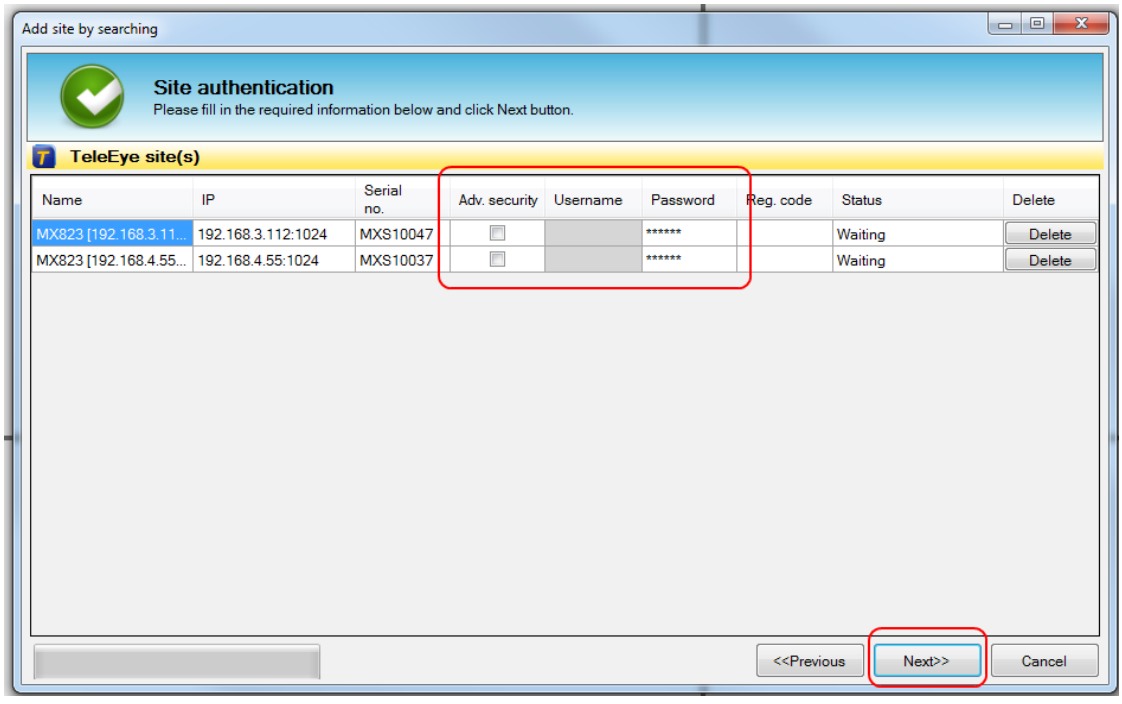
Step 3. Click the **[Search sites]** icon to connect the network camera.



Step 4. Click on the target cameras by their serial number or site name, and click **[Next>>]** button.



Step 5. There are 2 security modes for the users to make a connection, select and click **[Next>>]** button.



Mode 1. Basic Security Mode

Only password is required in this mode of operation.

Uncheck the *"Use advanced security mode"* and input the password.

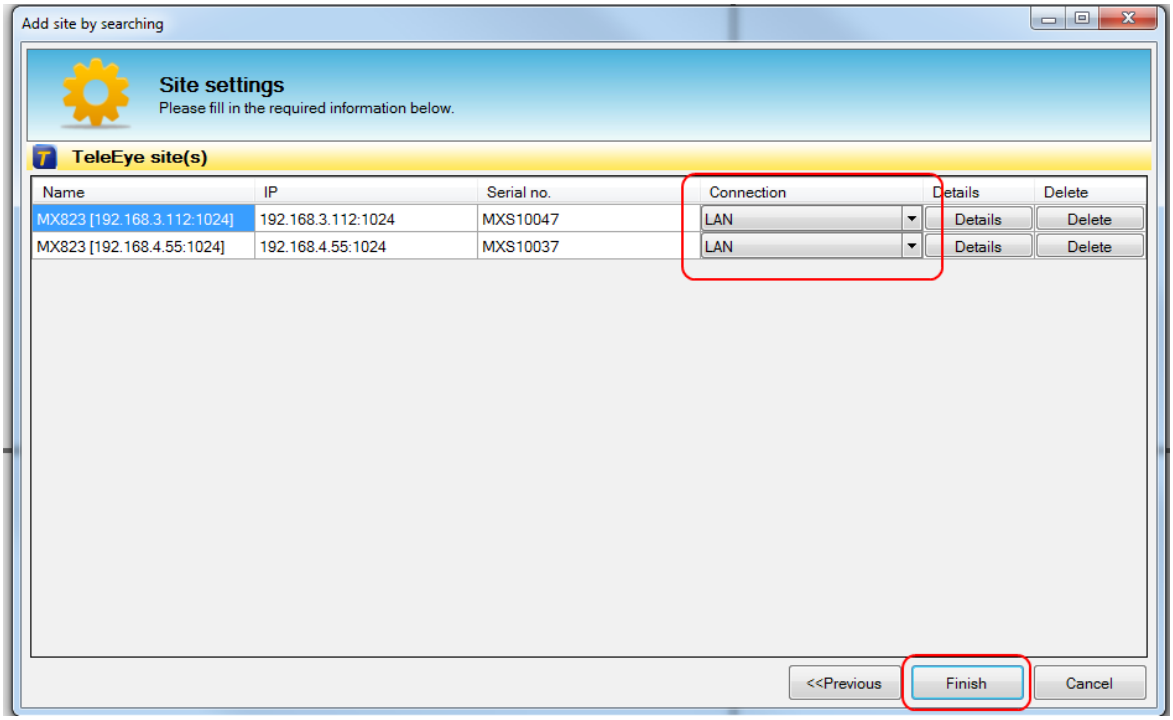
[Note] The default password is "000000"

Mode 2. Advanced Security Mode

Both user name and password are needed for this mode of operation.

Check the *"Use advanced security mode"* and input the user name and password into the corresponding textboxes.

Step 6. Choose the connection type from the list and click **[Finish]** button

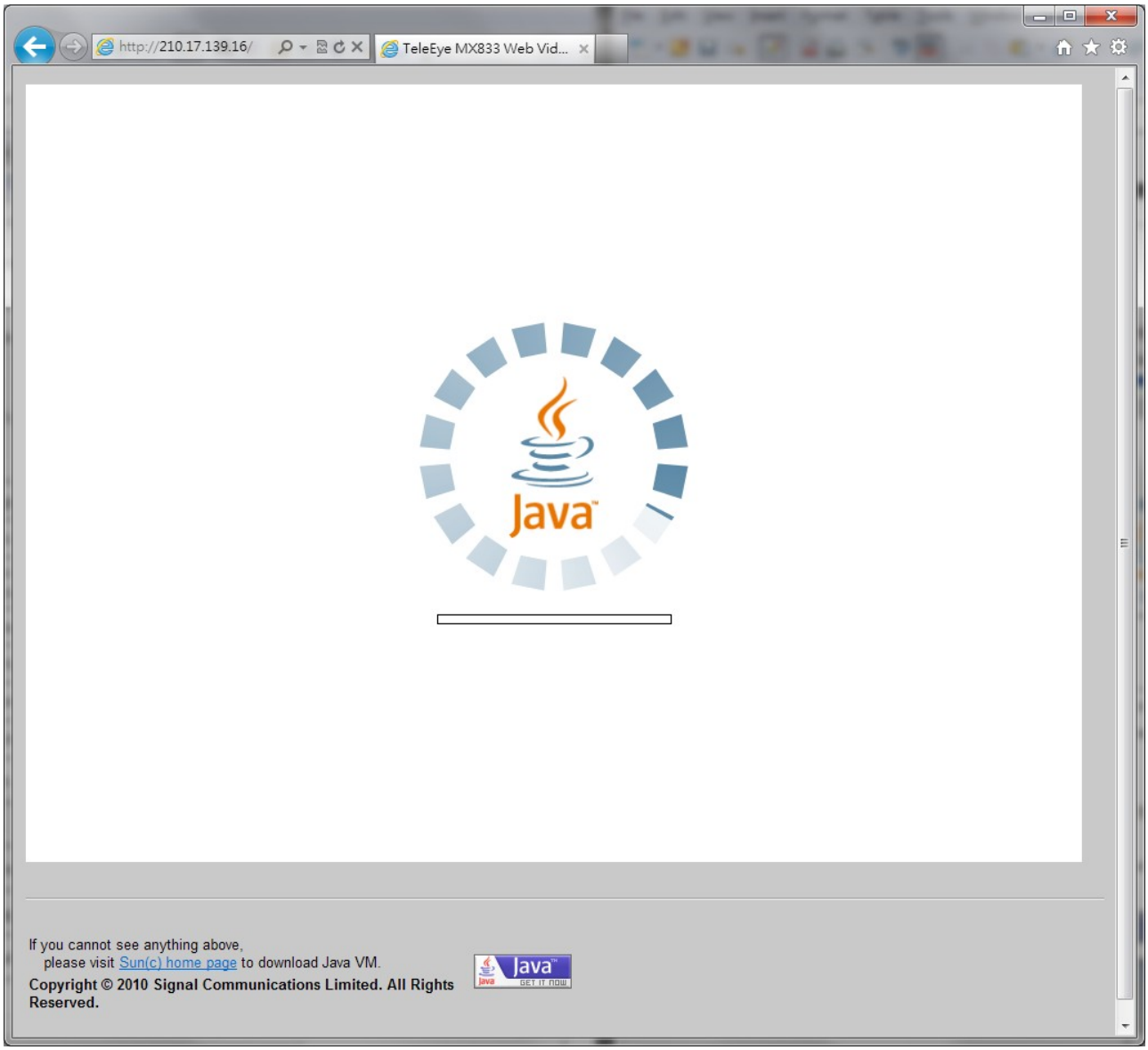


[Reference] For more detail operations, please refer to the sureSIGHT user manual.

sureSIGHT
System
View
Remote site
sureREC
Help
About
TeleEye
Site list
Connection profile list
Sites (29)
Connection info
Events
Audio
Switch

6.2 Web Browser

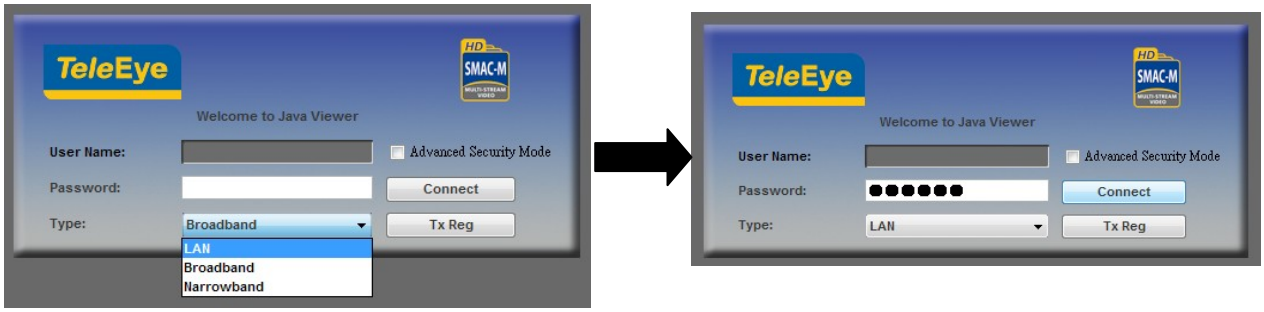
Step 1. Run the web browser, for example the Internet Explorer, and enter the IP address or the sureLINK address in the address bar.


http://210.17.139.16/
TeleEye MX833 Web Vid...
Java
If you cannot see anything above,
please visit Sun(c) home page to download Java VM.
Copyright © 2010 Signal Communications Limited. All Rights Reserved.
Java
GET IT NOW

[Note] JAVA Runtime Environment (JRE) is required for the web browser to run the application. If the PC does not have JRE installed, please go to http://www.java.com to download and install the latest version of JRE.

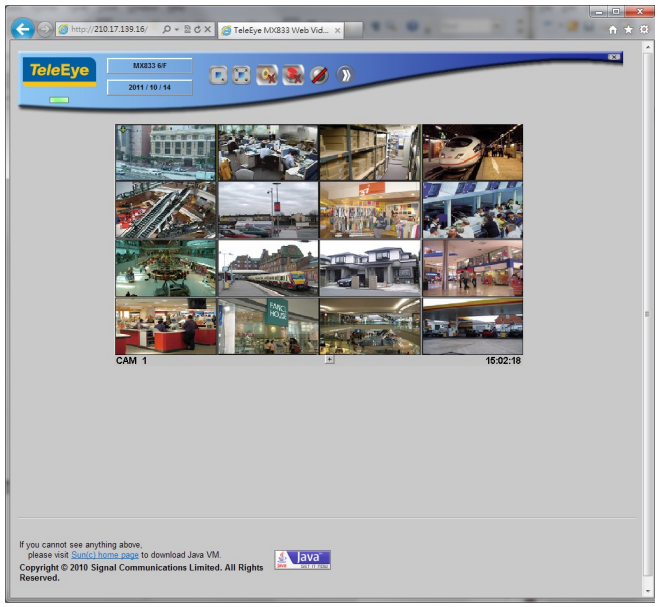
Step 2. Select the connection type and enter the password

For basic security mode, only password is required.



For advanced security mode, both user name and password are required.

Step 3. Click the **[Connect]** button to connect the video stream and the video will be displayed on the browser as below.



There are several buttons on the top of the video screen. The function of each button is described as follow:

	In normal display mode, enlarge the video resolution.
	In normal display mode, shrink the video resolution.
	Change the video resolution to the full screen size. Press “ESC” to return back to the normal display mode.
	Mute the event alert sound played when an event is triggered.
	Clear the event if an event is triggered.
	Turned ON if an alarm is triggered, otherwise it is OFF.
	The following buttons will be shown after clicking this button.
	Open the General Setting Page.
	Open the Audio Control Page.
	Open the Pan/Tilt/Zoom Control Page.
	Open the Log Files for checking.
	Open the Advanced Video Quality Setting Page.
	Open the Switch Control Page.

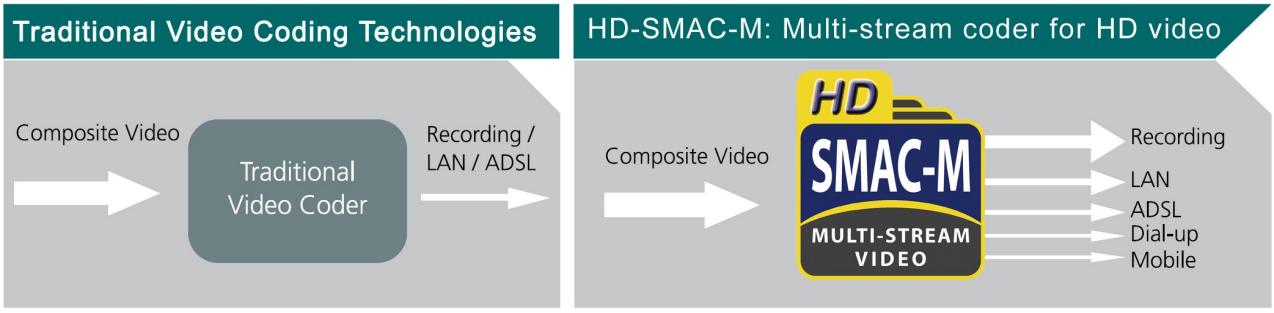
7. Appendix

7.1 Functional Features

HD SMAC-M – Revolutionary Multi-stream Coder for HD Video

HD SMAC-M is the world's first multi-stream coder developed by TeleEye for HD video recording & transmission. It is specially designed for IP & mobile surveillance application. HD SMAC-M features an independent HD recording stream to facilitate undisturbed recording of HD video while viewing through Internet or mobile devices.

- Providing four independent video streams covering different bit rates
- Offering simultaneous video surveillance and high quality HD video recording functions
- Transmitting 80% faster than H.264 on ADSL
- Recording 29% longer than H.264



16:9 Aspect Ratio Providing Wider View

TeleEye MX Series records the HD video with the aspect ratio of 16:9. There is a significant advantage over conventional camera, which provides the 4:3 aspect ratio of video. The wide screen format of TeleEye MX provides 33% more viewing area than conventional cameras with much better clarity. Hence, it gives user a wider view, and greatly reduces the blind spot of surveillance system.

Superb Video Quality with Great Details

TeleEye MX Series HD CCTV provides ultra-high resolution video quality. Its resolution is greatly increased to over 800 TVL which exceeds conventional cameras that usually provide maximum resolution with 540 TVL.

High Definition Progressive Scan Video

TeleEye MX Series HD CCTV Cameras come with high definition Progressive Scanning Technology. Its image is scanned line by line, instead of using the interlaced scanning method to interlace two groups of lines. The images have less distortion and jaggedness especially for the fast image movement.

IP-based Video Surveillance Solution

TeleEye High Definition Video Surveillance system is an IP-based solution. With the features of IP-based transmission, i.e. packet switching, versatile media and digital transmission, the TeleEye HD CCTV system can utilize the network resources, immune to high noise and transmit video through different media, such as CAT5 cable, Wi-Fi or mobile network.

Total Solution for HD Video Surveillance

TeleEye MX is capable of HD live video recording and multi-site viewing by using TeleEye sureREC HD Video Recording Solution and sureSIGHT Integrated Video Management Solution. sureREC is specifically designed for recording the independent HD video stream of up to 64 MX cameras. sureSIGHT HD supports HD live video viewing from up to 64 TeleEye MX Series HD CCTV simultaneously. Its modular design allows customers to scale up easily and add functional modules to suit specific requirements.

Video Surveillance Everywhere

By using TeleEye M-monitoring Solution (M-303), users can view live video through mobile phone. The M-303 software supports HSPA, 3G, EDGE and GPRS network. Users can also receive the event alerts of remote sites through the mobile phone immediately.

7.2 Specifications

MX600 Series

Model	MX677-HD
VIDEO	
Image Sensor	1/3” CMOS Sensor
Resolution	1280x720
Minimum Illumination	0.095 lux
Lens	20x Optical Zoom
View Angle (Horizontal)	55.4° – 2.9°
Mechanical Removable IR-cut Filter	YES
CONNECTIVITY	
Network Interface	RJ-45, 10/100 Base-T Ethernet (Auto-sensing)
Network Protocol	HTTP, uPnP, DHCP
Dynamic IP	sureLink, DDNS
Live Resolution	1280x720, 960x540, 640x360, 320x180
Live Frame Rate	Up to 25fps
Concurrent Users	6 (independent)
Security	Multiple user access levels with password protection
Web Server	Built-in
VIDEO COMPRESSION	
Compression	HD SMAC-M multi-stream
Video Streaming	4 independent streams for Recording, LAN, Broadband, and Mobile

RECORDING	
Software	sureREC
Stream	Independent recording stream, Independent resolution & frame rate
Mode	Manual, schedule motion, schedule event
Resolution	1280x720, 960x540, 640x360, 320x180
Frame Rate	Up to 25fps
Playback	Forward, Backward, Pause, Step forward, Step backward, x10 fast forward, x25 fast forward
EVENT HANDING	
Events	Video motion detection
Actions	Dialback, Alarm image recording at -3, 0, 3 seconds, Email with JPEG attachment
POWER	
Power In	24V AC
Maximum Rating	47W (max)
OPERATING ENVIRONMENT	
Ambient Temperature	-30°c - 40°c
Relative Humidity	< 85% (no condensation)
MECHANICAL DESIGN	
Weather Proof	IP66
Vandal Resistant	YES
Net Weight	4kg

7.3 Dimensions

MX677-HD